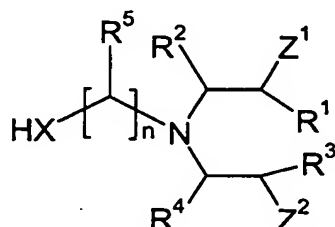


Preparation of hyperbranched polymers

Abstract

- 5 A process for preparing hyperbranched polymers comprises reacting compounds of the formula I



where

10

X is sulfur or oxygen,

R¹ and R³ are identical or different and are hydrogen, C₁-C₆ alkyl, C₃-C₁₂ cycloalkyl or C₆-C₁₄ aryl,

15

R² and R⁴ are identical or different and are hydrogen, C₁-C₆ alkyl, C₃-C₁₂ cycloalkyl, C₆-C₁₄ aryl,

20

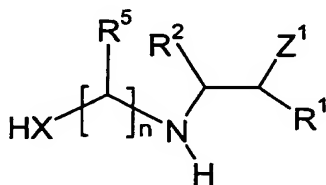
Z¹ and Z² are identical or different and are COOH or COOR⁶, the radicals R⁶ being identical or different and being C₁-C₆ alkyl, formyl or CO-C₁-C₆ alkyl,

R⁵ identically or differently at each occurrence is C₁-C₆ alkyl or hydrogen, and

n is an integer from 2 to 10,

25

optionally with at least one compound of the formula I a



I a

where the variables are as defined above,

30

in the presence of a catalyst.